010	10/26/00
PATE 1 9 200	- Maging / Catalogines - Tray movement - Reference back to Samples of interest
A THE STATE OF THE	- sort for cry Aal only images
et in 2 - Million cape in 1	- storing images over time to compare images at At-
The second of th	- using to image as a filter 1-st week - 3 different temperature 1 ea/wk for 12 9,12,20°C > 10 n xtal
· 有 1.4% 经营产 7.4元美	ideal 100 u xtal
	- Leaving system
	- Zoem variable to more closely analyze regions of interest
	tompunies - JMAR - OGB
	Gerippi- of shoot (Cyrex -competitor
	Gentle moves - not disturb drops in suspension
	Enclosure 6

	20
11/1/00 - Meet W DUT	
1- Resolution	, -, -, -,
-low kevel algorithm access	
- Open relationation complete	
- Group editing capabilities	
- Complète remôte aires to Mesholds - Cavoup Mresholds	
11/2/00 - SGC	
- Some images in automated Carlion	
- Store mages in automated faction - sort/contesperize	
- Sinkatron / X-Ray Generator 20-30 in X-fail size - ideal	
- Diffraction patterns generated from X-ra	7
- Single Plate & 15 mins to manually a	
- ando elimination of clear drops w/ no xto	
- lighting & image quality not comparable to	
+· '	
- resolution of surage - Lowert FOV - complete drop - Smallest w/ microscope FOV = day /4 of atom	<b>\</b>
- VideoCMM 1 VI.05 J-MAR Measurement of total size	
- Measurement of what size	
- drop size & 2-4 mm dien - light microscrope / back light anly	
light microscrope / back light any	

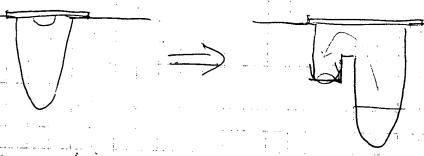
Thumbrails of ill images per well The image update like video 10 pct/wk or 30 plates/star wk 3 plates/prot. I for each temp. 20,12,4°C 5000 proteins /5ye v > 3/day solved Panasonic GP- F602 - Caneral NIKON 50 W AD hight como tiber optic Nikon 10x 168 1 3x 230 6 J.MAR Model: MSTXY. 0410 7040 Microcacape Olympis (SZY.12 SZX-LD100 Pixera communa VC100C Diffuse to bicking

- Find Error included in Average & Min?
-gives valid pad coverage -gives spot size find error because blob not in ROI
-disable or hide inspection settings as
11/12/00 PURASTP - new customer
- Get Marcioni Boards & Test results - Schematic enough to order connectors - GGX - Git down on box on Carbie - consera lighting system - gotte marrine - Gottware definition - Noc-
- fix Galil problems - contact - set up time.

- Update Website
- Call Robolashy today

	•
1/13/00 /5(-	X

- 2-4 mm drop size
- 4°C operation
- No heat generation by light / IR filter as small as I Micron in size deal xtal 60 42 1.5 mm depth- of field



Bottom light source light source config us x/x movement 5,10, other plates on machine?

	59	,
ess e une une une une une une une une une u	12/28/00 SGX	:
-		
	W/ VZM-3COI lens	
	(D.75x Per ≈ 4.7 m/pixel	1
	@ 3x ~ 114 m/pixes	i
<u>-</u>	used spacing of wells on MTP to code	-
		:
	FOV ~ 1.5 mm x 1,17 mm ,5 mm bof ~	1
1	For ideal 1/11/pixel	
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	$T_{ij}$	am WIV
	Infiniture 100x + 109 mm TOV # 1490	
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	1.tar Ultra Zoon 10x + 1,2 - 18 For ZonnWD DOF? 1-60228 + 1x, M	
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	Withou Zoom 10x + 1,2-18 FOV 20mmWD DE? 1-60228 + 1x, M	
	Withou Zoom 10x + 12-18 FOV 20mmWD DF? 1-60228 + 12-18	
	untar Untra Zoom 10x + 1,2 - 16 FOV ZommWD DF? 1-60728 + 12-18	
	Ultra Zeon 10x + 1,2-18 FOV Zown WD DOF? 1-60228 + 12,14	

60 + Aprily Sturman - Cet view firminare

+ Test laterst inspector SW

- Install arranger imparade

+ Sax proposal

+ Marcini Status Feport

- Deliver components to UCI - Order conne

- Get all other parts

1/4/00- Sax - Project proposal -25-26 Surany - Andonwhon Partreaship to visit - Multi mage viewer Pour Codes - plates - kryonen? - Tube labeling - Robadesian 150 -EM - Variations around 300 - Continuous Stert/Stop & Data collection - Agric matcel acceptance - data collection through out 3/00 o - verify settling - in program & - Juning support

Wichor sagis 183 - 184 - 185 1/11/00 - SGX (Kick-off) 183 - MACH 1 184 - MACH 2 185 - ENGINEERING - Board, Camera, Lenes(es), Light - Danensions, WD (rounge), Motorize Zoom - Analog output to light-source Order Parts Next week 1/15/00 - VRE - check option - Test Carnera / Hi-zoom in Inspector - Calibration Torraget - Room Humidily - Temp? / Fay leng? - Robo Soft / Robo Vision Patent call sohning Poss 11101 - Inspector Spot Display - recenter or shrink so spot below doesn't snow.

Exprenent W/XXIK comera a Resolution of cornera observed excellent stability when year tionary 2,5 m/enc cut. pressure on pasepate introduced a 10 pixels of deflection with exessing on the stage introduced a 40 pixels of deflection or a 20 m 24/05 - Inspector Install 87.3 Hes Adjusted inspect positions after more Matrix not always running after sel Petrisol not tracering after update of faught positions oper Det table dump not working of programmer level

1/25/01 - SOX & TAP -12 plates / 3/2-8 minutes moves ) m/s accel :5 m/s2 - check convera orientation - value for heating xtuls - 2/4/01 - meet m/ Beard Micro source John C. meeting for software & DB - SM command

AB MO SMI - look for lOV @ Drive and

not there immediately

send new cirmnane w/ debug term enabled -805 - control kick off 1/86? 3 phases - concept - detail - build & de long Control block diagram / concept. Distributed Galil PLC & Galil - Think & Do & Galil

90 CCD-Detector Research 4/2/01 \* Absc \* Supiter W/ SGX 2/12/01 - Must discuss computer location / cutiling etc - bede microsonice - microx options - detector as close as possible < 300 mm diffacted beams - through solution or plate? reference x tal after plute
40 ju for CCD resolution more important than overall size Mike Blum build Mar CCD

2/14/01 - Robo Vision Development (2001 officer) conviera pixel size pixel resolution = zoom optical V.C. (V-M1 JA) camera Co.74 sixel size = 10 x zoom P32 2 02m magnification pixel size com monitor size pixel size moon. monitor res. 7 (17"-1")/11.20 0125" or 317.5 in PIXEL 317.5 W/x 7.388 M × 10 x 4739 M 6.7 M/8 I make con in a Turipes - wind v size in px Window Size in p. mon res. 17960/15 + 1170 = 1,9354x + 473.9 = 443.3key walles Conneva px size Monitor size monitor res ?

3/16/07 - SGX To - image coffer loading Ti - I day Ti - I day Ti - 3 days Ti - 7 days Ty - I/w: out to 13 wes every well every time.

@ drop vew
unless dried up 40 % of slates have @ least 1 constal Crystals me need further zoon . . . . . . . . . · Now-Crystal mages delete 40 proteins / 1x + goal for stator lity 2 plates per ux - after optimization studies etc.
BTU estimies - UPS system de Rota integrite, on Ganity

weekly 3/25/01 - Meeting -get new firmware from Galil - Gall - SGX - ship Friday - make list of questions! - description of Functions for SGX SGX to come & Thur to review Questions for SGX 3/26/01 - plate types intended for initial run. - image delete features - mage load teatures. - maige save options in namual explore mode.

- invalid Barcode - enter manually? Drop size ? GGX weeds. - bour code/type plante Database Notes - data indicating Z-height adjustments 

- Humbras Diece order confusing
- mightight location in tray associated to themstrain
- updates of display for matching location
- status display updating during run
- Pauced live - images still dumping to thumbras - measure display in Microns
- place select addates thumbrails
- select saved mages after a manual exploration - visit to of through vouriations of drops -don't field illumination from back - Janet has sample hight - foins issue worse in a sitting drop - pen rame? for mach, re - Drop Find - Ley function - Thumbrian shows of choop of found

trocersing tocus @ bottom of well to check for - typical drop size - 3-5 mm 2 - inspect for jolted trays - size of crystal - shaper 7 - gramy precipatate, posibly wystaline <194 8 - spartles, resolve xtals < 194 9 - > 104 - guess at morphology - shape - ferr perputure - gott by Unemistry unakerup ) hanging drop/detinite 148 well + 96 sitting drop 24 ) passide

		109
<b>—</b> -	Array Definition needs to accomplate multiple grops per well	
1 1 1		
\	invalid barcade	
	-ability to run anyway - possibly enter (1)	1 1 1
	- not automaticulty store images - eventually dumped it not handled manually	
	- eventually dumped it not haveled manually	
	- 10) alpha numeric - first character identifies trans	
	- first Maracter Identifies trang	
	11/01-15	
	4/2/01 - Staff Meeting	
	AMGEN - Brian wante to visit get pharment	etical basi
	SW engineer- give a test, interview Wedi	
_	meet w/ Bio Discovery on Thursday colabor	ation
	Meeting report - from SGX meeting	
	- write these of quote	w.
_	were communication as to SW status Br	d.
_	Tope Audit on triday	
-	- Book Sax storage system this neek? - Warentee medent for Robo Arrayer Must be I y	c Lumited
	Nochine on floor - SGX - weds SW install	
	4/2/01 - Marconi	
-	Change to add AC offset works	
	Change to add AC offset works * Sharinge range to 0-7 point availability for AMZ70512 * no less than 20 ms poll value/may	
4	Peur to avail ability for AMC 19512,	be 40 ms
+ + +		

43/01 + 56X 8W testing - drop postion not applied properly to

correct for drop position

- drop images not displayed during run as

C1 - C2

Vinumbra, 1488 - 7 577.35, 147,28 C8.38 A

649 + 4th o

215. Cots 5 = Version ++ on Insp. Ub Horning cefter ENO not nove in a mage in date of control copp no always displaying on snap - predefined bour code 10 for certib SOX SW (extine Pule direct of for images

DB Mon

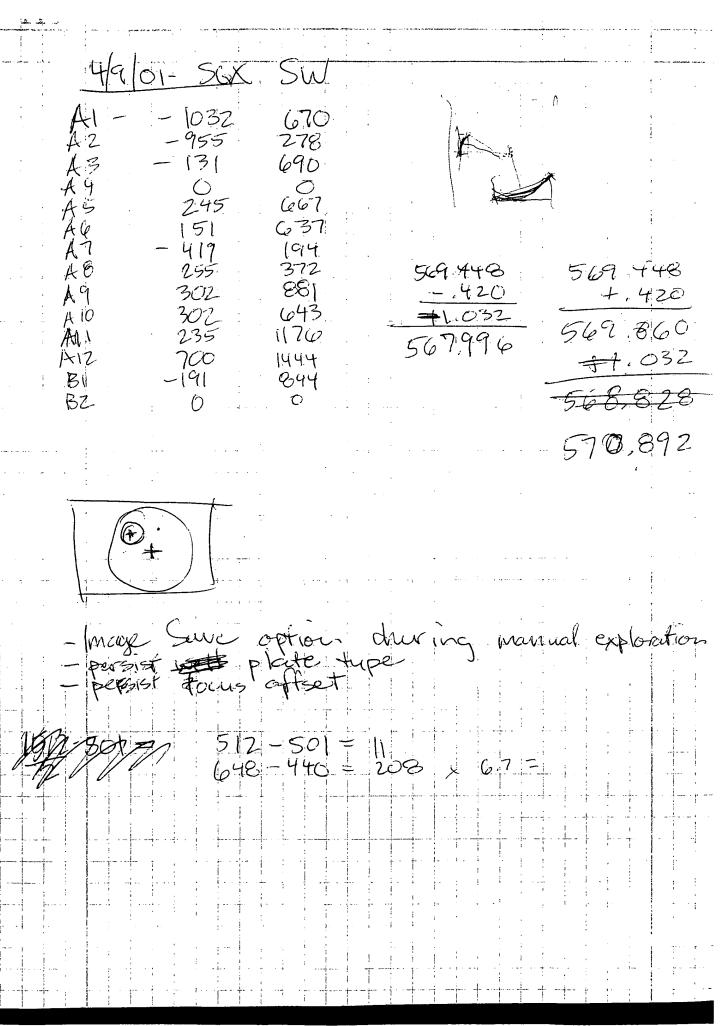
Current e & DB, & txt DB Mon

4401 - Marcon - Conf Call - Firel PADS File with additional layout - Clock Freez running 186 @ Monages. 4/5/01 - SGX SW - pixel Res. set as by Ret on Zoon level 1557 - closing SW - nor light off?

July - Build B nor Exisping plates

White - find drop not funt, input curry offset

White - focus offset - persist 1. July - focus offest persiest - it not valid thop so ition, return take - improve filtering of an p selection 1901 - SGX SW 5005 Chl-rabt Clear Local plates Chi - reft dich Home Select plane type adjust offer for



4/10/01 - SGX SW Testing I Run løgget button on lam Set pagge not wired 4/10/01 - 56x @ 1098 ) Installation #32 Foreis adjustment - easier & automated - Inter lock - interport - interport controls for manual exploration - Serve Button & Print button Automoted live - Hustomoreer uve - Estop recovery - Error Op Grate facted grate caperation related to motor Estop recovery related most likely 4/10/01 SONM - EBIL - Not swiney strong ht postion
- Run 2x ofter initial load of Matrix
- 384 chips mostly
- Incoming QC
- DUP timeout errors DUT timeout errors in more frequent when Is power save on laptop tragers - Application already running on front sween.
- Inspection results hot display on front sween.
- header each printed peak. - por error on z-coois ) retry not always - Dut timeouterrors ) working - Duta on levorts "non-sonsicul" - Dota on leports "non-sonsicul" is Add wunt for find errors Inspection Time cerros hugh
- Motor Driver?
- DB access?
- Motor Tuning?
- DVT event handhue?

4 11 01 Marconi + Gene & Ted continue testine - Meetings Continue on Wed - Oxillator exact frequency - O 15 rouge on r command. - Defaults - for GN PL, ZP with game defaults - CP command not manufaming through Rower up Wyon - CONM - Nicotrix Inspector (109177) - New SMF not compatible - Failed to Open Motor IF - 384 taught vs build (Ret on inspect pos - intensity reference move to not overlay pads 1101 - SCX A sixting for second present from the find the drop agovin

4/2/01 SGX - Destature Discussion - Inspection Nortable Destatories - Mirror of Server VS Pobovision - Query builder food - Offline Viener - luspection List Emilder - Results XFF - Maintenance Ufilities DB Editing Utility 4/16/01 - Weekly Meeting - Get Final Revision of Setthere out & - SGX roadmap - meeting Tues what s next - Assist in Opto 22 update up found - Pin Inspection
- Moncomi reed clock frequency of 1860 14/16/01 - Staff Meeting - Call Sequenom in Germany about visits

- Patent Application on RoboVision

- Ferrard Email to Brian on Volume lasp of Wilbur The second second second

4/23/01 - Weekly Meeting M [ France out Mis west for Marcon] Sex - West w/ Duid to Discuss wext release Test bound's current release andidate - Improve Focus methods 4/25/01 - Marconi Double check clock circuit to a well 201 - Rober Son Metall SW RIS SUB mate sure small Sonts under video cand uparaded SNAP (O, orx to 3/6/0) version

5/1/01 - SGX SWI Testine When you run, were plate civilizat of Well status after on manuel correction now is it welated after manual correction thumbrail well view, if run establish forms? after manual exploration, goto an new well zoon restored light level not well image display (small) appears grainy b/f select outside of thumbanil view first thumbral @ state view not always indica cutter right-click acto 90 well 48 well selection N/A histograms 48 well high light not correct size Inclassed donde-chick porto Pause - Red button should flach?

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5/1/01 - Pyric - Currie - Cubre hous wedge down cubie, co - Releny on Conne	ontacts den star connected batts  or so it doesn't fai
- Ditalone and San Der	could not read
- Distable engetern + Konic 1536 plate robot in section & who che 5/3/01 - Rose Approx	in DB
EDYUNG VZM-BÜDL TCV min, OUR Z/3 format JAII 9.7 Ar/prik +7 2 01 12 2 mm 7	300 × 1000 3 m/pix 19 mm for 73 format
- Losse of the Control of the See Min Control of the Control of th	In 3/2
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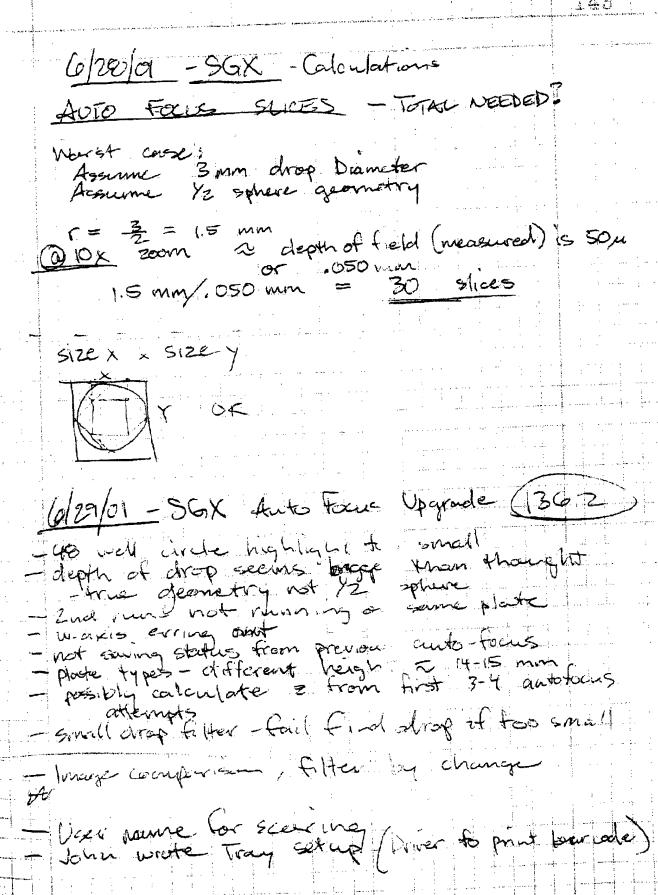
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5/29/CL+ Meeting
OB tester - www.nenleine
- Clonetech Ting/Humid 12 Wks form Review Roka interface last week
- Marconi - to & Foday about RS/In1 - review selevnatic formation 10:30
- SGX- Avolu a volors Vision de Volonient A Rug pre utation foray my John?
- A- Cuy pre what com forday w John ?
Kurt charact of Deliverable
5/29/01 - SG C 13C 3HC 4.65 GB
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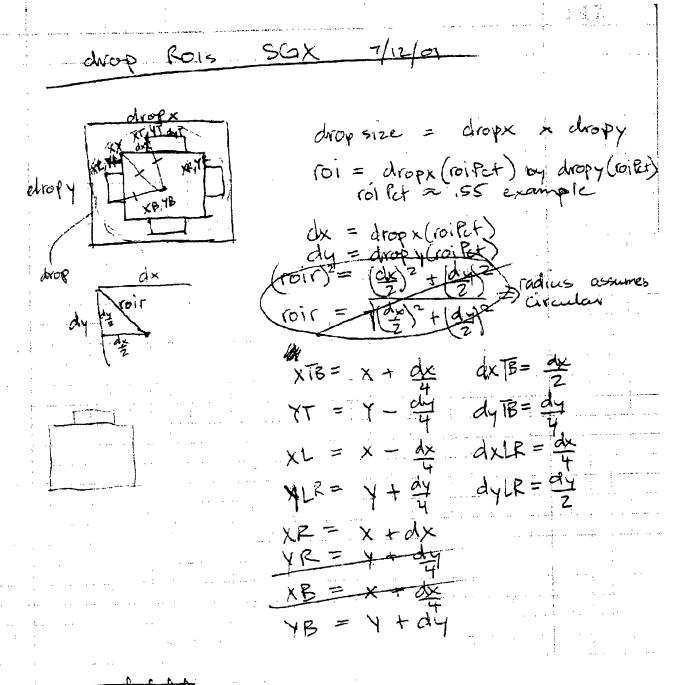
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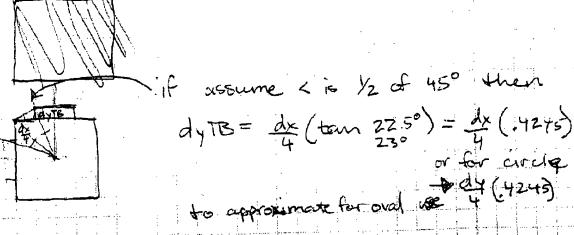
11 2003 5:06PM - XCOCCO3 Scored - Ber code printer? - Clear / not clear - refine Autofocus - Danet class on Crystal 5/30/01 - Marconi Q: Find Block Diagram? Q: Received PLB Som \* - review encoder inputs wit Garlil verity debuy part is Pa on Robo schumatic Documentation - Bound Free 7es John to email times of Pe John also to check in puremen Solve RS command is es by Galil Defaulte GET SW Roleause from Drund

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	7/2/01 - Meeting	
	Clonetech - Electronics = July 15	
	light design for Clonetech - get my So	voor
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,'	Quote Wilber on 96 Head Asset	
	Call to first Techs - Mechanical, Electrical, S	ervice
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7	7/5/01 - Crystal caracteries	2
	- Measurements	
	- number objects 512 x 512 - length with of objects RO(	And the second s
r de la companya de l	- gradient	
	- grayscale	
<i>7</i>		
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	ROI W/in Drop / minimal shading Graystate calibration of each For ? Graystate target	
مس <b>ن</b> حسور درورد	Graysonte target Identify ortimal contrast wy gain, offset	
	Tools Defined Countroist W/ gam, offset	
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	John Analysis approach discovery David	- Supports
	Mandel - Code Algorithms	





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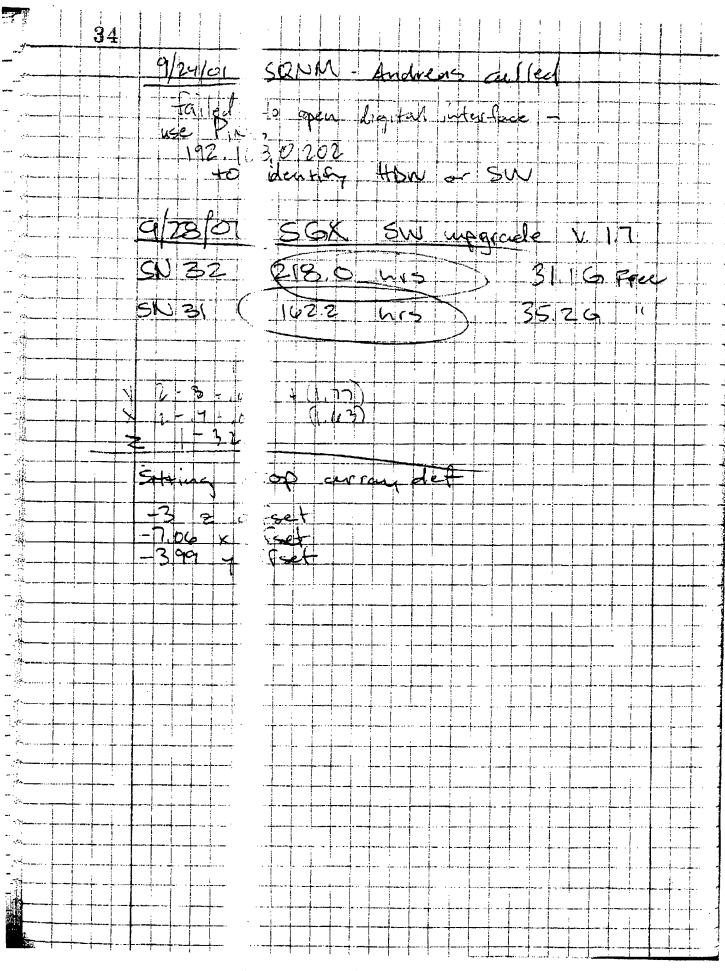
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	7/14/01 SGX - RV Testing Problems -	
<u></u>	Problems multiple plate scoring, not always saving of - z offset not being applied	lata
7	speroach windowed analysis gaus, an windowed for entire image show response type by regions	<b>S</b> 1
	usually \$299 for run-time dll	

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	3 August 2001		
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	water transfer to the state of	1 ; ; ; , ,	
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e generalter	3/20/01 - Weeky Musting		
:	Clonetech - hit list / Andy keeping updar	led	
<u>ب</u>	Need Kewerk head for 1st install		
	mayes of good spots from Darry 1 Bour code router, recommend		
. •	SGX - list issues/ review w/ Dund & Kurt		
	SOX - list issues/review w/ Dund & Kurt- neeting @ SGX today 11 oc a fix install w/ Mike		
	Oklahoma visiting at 1000		
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	Army court of to		
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	on feset CSP signal interapt p chip-select from Micro respond then done		
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Motor 2.3.1 02/19/01		
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- Data problems persist		
All started to work.		
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8/28/01 - Robo Arrayer Inspection	+++	
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